

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/051068

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, Sequence Search, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE GENESEQ 24 February 1999 (1999-02-24), JARVIS ET AL.: "Human c-fos hammerhead ribozyme nucleotide position 822" XP002306181 retrieved from EBI Database accession no. AAV95488 the whole document & WO 98/32846 A (RIBOZYME PHARM INC) 30 July 1998 (1998-07-30) page 51; claim 9</p>	<p>15, 17-27, 44,50,51</p>
X	<p>----- WO 03/002589 A (HEUTINK PETER ; OOSTRA BEN A (NL); UNIV ERASMUS (NL); VAN DUIJN COCK M) 9 January 2003 (2003-01-09) the whole document -----</p>	<p>52</p>

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

26 November 2004

Date of mailing of the international search report

19.05.2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Bort, S

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	NJAJOU OMER T ET AL: "A mutation in SLC11A3 is associated with autosomal dominant hemochromatosis" NATURE GENETICS, vol. 28, no. 3, July 2001 (2001-07), pages 213-214, XP008039160 ISSN: 1061-4036 the whole document	1-3, 11-13, 16,28, 29,42, 43, 46-48, 50-52
A	----- WALLACE DANIEL F ET AL: "Novel mutation in ferroportin1 is associated with autosomal dominant hemochromatosis" BLOOD, vol. 100, no. 2, 15 July 2002 (2002-07-15), pages 692-694, XP002306179 ISSN: 0006-4971 the whole document	1-3, 11-13, 16,28, 29,42, 43, 46-48, 50-52
A	----- MONTOSI GIULIANA ET AL: "Autosomal-dominant hemochromatosis is associated with a mutation in the ferroportin (SLC11A3) gene" JOURNAL OF CLINICAL INVESTIGATION, vol. 108, no. 4, August 2001 (2001-08), pages 619-623, XP002306180 ISSN: 0021-9738 the whole document -----	1-3, 11-13, 16,28, 29,42, 43, 46-48, 50-52

INTERNATIONAL SEARCH REPORT

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PCT/EP2004/051068

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: **30, 34-43 (all partially), 45, 49**
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 30 and 34-43 are directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the subject-matter of said claim wherein the step carried out in the human/animal body has been excluded
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
2-4 (all completely) 1, 11-32, 34-52 (all partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: claims 2-4 (all completely) 1, 11-32, 34-52 (all partially)

Invention 1: (use of) polynucleotides (vectors, cells and kits comprising them) as well as peptides, and antibodies against them, coding for a ferroportin1 mutated in amino acid position 80 of SEQ ID No. 2; methods using them to detect ferroportin1 mutated in the amino acid position 80 of SEQ ID No. 2

2. claims: claims 5-7 (all completely), 1, 11-32, 34-52 (all partially)

Invention 2: (use of) polynucleotides (vectors, cells and kits comprising them) as well as peptides, and antibodies against them, coding for a ferroportin1 mutated in amino acid position 174 of SEQ ID No. 2; methods using them to detect ferroportin1 mutated in the amino acid position 174 of SEQ ID No. 2

3. claims: claims 8-10, 33 (all completely), 1, 11-32, 34-52 (all partially)

Invention 3: (use of) polynucleotides (vectors, cells and kits comprising them) as well as peptides, and antibodies against them, coding for a ferroportin1 mutated in amino acid position 248 of SEQ ID No. 2; methods using them to detect ferroportin1 mutated in the amino acid position 248 of SEQ ID No. 2

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International Application No

PCT/EP2004/051068

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 9832846	A	30-07-1998	US	6103890 A		15-08-2000
			AU	6031598 A		18-08-1998
			WO	9832846 A2		30-07-1998

WO 03002589	A	09-01-2003	US	2003082553 A1		01-05-2003
			EP	1409511 A1		21-04-2004
			WO	03002589 A1		09-01-2003
